

Cloud Modelng & Aerosol WG Meeting Sep/oct 2009 Boulder



The New Program: ASR Atmospheric System Research. Any program is as good as the science it promotes!



Newsletter @ BER

 Need Abstract of your Published paper (Executive Summary format)



ASR Budget: ~\$25M

FY10: about \$1M increase

SciPlan for ASR



Why DOE is in Climate Business?

- how energy production results in climate change?
- how climate change may impact energy production?



Why ARM and ASP are merged?

- avoid compartmentalized research approach
- deal with clouds, aerosols, precipitation, radiation in a holistic and comprehensive fashion



ASR Program Mission

- understand, and improve C, A, P, & R processes and their interactions
- Ultimate goal is to develop comprehensive, integrated, multi-scale frameworks representing life cycles of Clouds, Aerosols



Tools: Obs & Models

- Characteristics of coordinated Lab and field measurements to understand life cycles of Clds & Aeros
- What types of integrated & comprehensive data products necessary to tackle these processes



- characterize uncertainty in data products
 helps to evaluate and improve physical formulations for Cld, Aero, Rad processes
- complexity Vs accuracy
 - efficient computational techniques
 - Feedback to Obs strategies



New Instruments & New insights

Synergy & product grouping is very important



Models & Processes:

- Scales of Obs
- choices for models
- > scaling up obs
- unification of research issues common for aerosols and clouds
- Metrics for processes
- > Simulators



Where possible, Collaboration is highly encouraged.

Questions?



Observation Technique Synergy



Earth Explorers The Living Planet Programme esa

